

PATENT  
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: **Kazushige YONENAGA et al.**

Serial Number: **Not Yet Assigned**

Filed: **August 28, 2001**

For: **OPTICAL TRANSMISSION SYSTEM**

PRELIMINARY AMENDMENT

Commissioner for Patents  
Washington, D.C. 20231

August 28, 2001

Sir:

Prior to the calculation of the filing fees of the above application, please amend the application as follows:

IN THE CLAIMS:

Please amend claim 10 as follows:

10. (Amended) An optical transmitter according to claim 8, wherein;  
a precoding means is provided at an input stage of said amplifier,  
said precoding means provides an output which is the same as the previous output when an input binary digital signal is 0, and an output which differs from the previous output when an input digital signal is 1, and

    said travelling wave type electrode is designed so that phase change of optical wave propagating in said optical waveguide depending upon said electrical field has waveforms of a ternary duobinary signal.

Please add the following new claim 18:

18. (New) An optical transmitter according to claim 9, wherein;  
a precoding means is provided at an input stage of said amplifier,  
said precoding means provides an output which is the same as the previous output when an  
input binary digital signal is 0, and an output which differs from the previous output when an input  
digital signal is 1, and

    said travelling wave type electrode is designed so that phase change of optical wave  
propagating in said optical waveguide depending upon said electrical field has waveforms of a  
ternary duobinary signal.

REMARKS

The above amendment is believed to place the claims in proper condition for examination.

Early and favorable action is awaited.

Attached hereto is a marked-up version of the changes made to the claims by the current amendment. The attached page is captioned "Version with markings to show changes made."

In the event there are any additional fees required, please charge our Deposit Account No. 01-2340.

Respectfully submitted,

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VERSION WITH MARKINGS TO SHOW CHANGES MADE

Claim 10 has been amended as follows:

10. (Amended) An optical transmitter according to claim 8 or claim 9, wherein;  
a precoding means is provided at an input stage of said amplifier,  
said precoding means provides an output which is the same as the previous output when an  
input binary digital signal is 0, and an output which differs from the previous output when an input  
digital signal is 1, and

    said travelling wave type electrode is designed so that phase change of optical wave  
propagating in said optical waveguide depending upon said electrical field has waveforms of a  
ternary duobinary signal.